TCS COMPACT SERIES ENGINEERING INFORMATION

datasheet
TCS-115C

The TCS-115C is a front-loaded low frequency loudspeaker enclosure designed to give bass and sub-bass reinforcement to TCS Compact series two-way enclosures in a wide variety of fixed installations ranging from cafés, pubs, bars and restaurants to retail stores and houses of worship.

It consists of a 15" reflex-loaded low frequency driver in an optimally tuned, birch plywood enclosure. The TCS-115C is designed to form part of a two-way active system when used in conjunction with TCS Compact series two-way loudspeakers and a Turbosound LMS series Loudspeaker Management System.

The cabinet is constructed from 18mm (3/4") birch plywood, and is finished as standard in black or white semi-matt textured paint; raw wood and custom colour options are also available for decor matching. A powder-coated steel mesh grille backed with reticulated foam protects the drive units from damage

The enclosure is fitted with internal M10 threaded rigging points on the top, bottom, sides and rear, which allow single cabinets to be suspended and angled in fixed installations using optional M10 shoulder eyebolts.

A Neutrik Speakon NL4MP and a four-way barrier strip connector provide input and parallel connections to additional TCS Compact series cabinets.

A weather-resistant option to IP45 is available for use outdoors and in humid conditions.

FEATURES

Compact enclosure

Multiple rigging points

Custom colour options

IP54 option

APPLICATIONS

Fixed installations

Pubs, clubs and bars

Houses of Worship

Turbosound®

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DIMENSIONS (HxWxD)	652mm x 465mm x 423mm (25.7" x 18.3" x 16.7")
NET WEIGHT	25kg (55lbs)
COMPONENTS	1 x 15" (381mm) LF driver
FREQUENCY RESPONSE[1]	43Hz - 150Hz ±4dB
POWER HANDLING	300 watts r.m.s., 600 watts program Recommended amplifier power: 600 watts @ 8 ohms
SENSITIVITY[3]	96dB, 1 watt @ 1 metre
MAXIMUM SPL	121dB continuous[4], 127dB peak[5]
REC CROSSOVER	12dB/octave low-pass at 150Hz
NOMINAL IMPEDANCE	8 ohms
CONSTRUCTION	18mm (3/4") birch plywood. Finished in black semi-matt textured paint
GRILLE	Powder coated perforated steel mesh, backed with black reticulated foam on black cabinets; backed with white acoustically transparent cloth on white cabinets
CONNECTORS	(1) Neutrik Speakon NL4MP, wired pin1+: positive, pin 1-: negative, pins 2+ and 2- N/C (1) 4-way barrier strip connector
OPTIONS	Optional finishes: white, raw birch plywood, and custom colours IP54 weather-resistant version (TCS-115CW)
FLYING HARDWARE	(9) M10 internal threaded rigging points
SPARES AND ACCESSORIES	LS-1514 15" (381mm) LF loudspeaker RC-1514 Recone kit

Notes

[1] Measured on axis

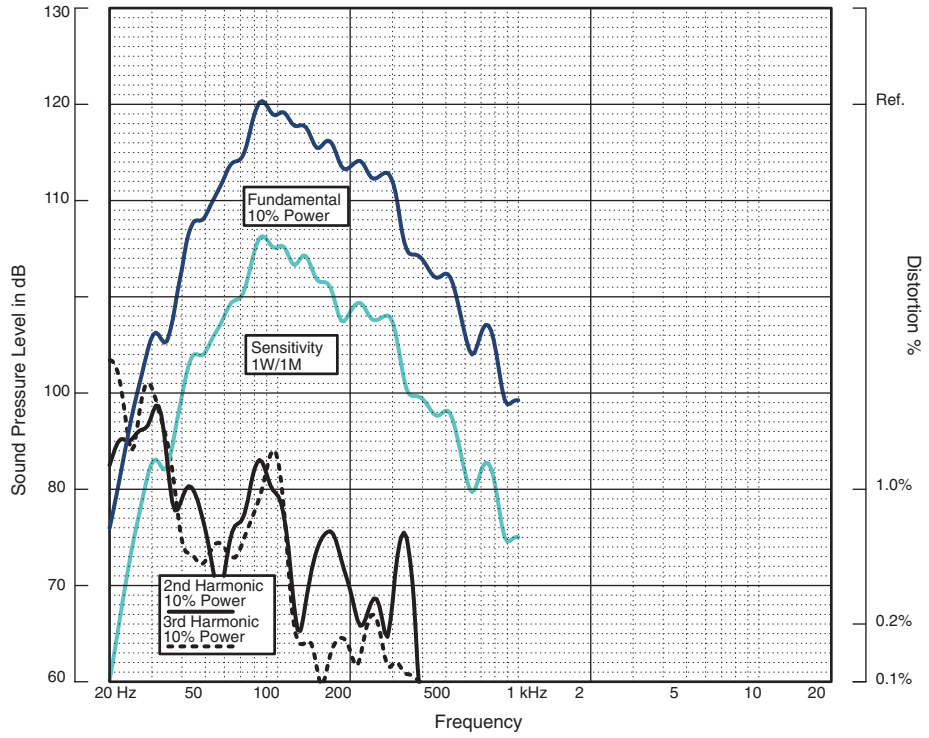
[2] Average over stated bandwidth

[3] Average over stated bandwidth

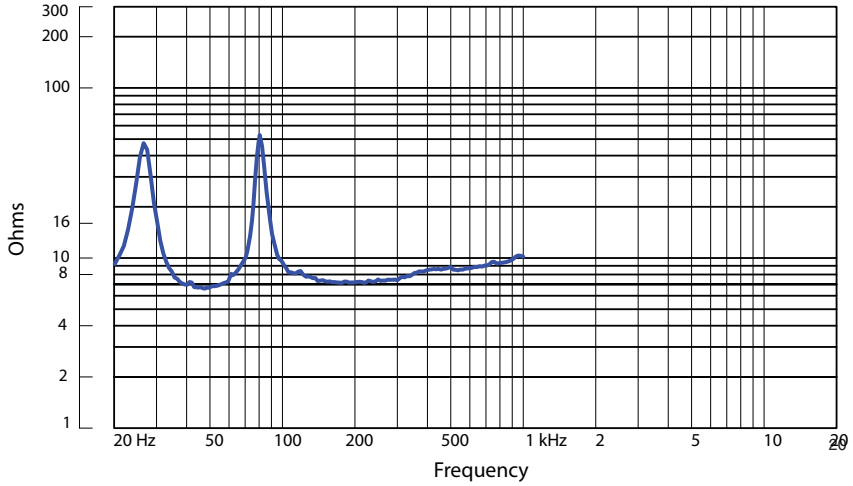
[4] Unweighted diode-clipped pink noise. Measured in a half space environment

[5] Verified by subjective listening tests of familiar program material, before the onset of perceived signal degradation

FREQUENCY RESPONSE



IMPEDANCE



NOTES ON MEASUREMENT CONDITIONS

Impedance A constant current circuit was used to measure the impedance. **Frequency response** The frequency response shown was obtained by feeding a swept sine wave through the system in a half space environment. The position of the microphone was vertically on-axis at a distance of 2 metres, then scaled to represent 1 metre. **2nd & 3rd Harmonic Distortion** Distortion measurements were obtained using an Audio Precision harmonic distortion analysis system and comply with AES recommendations for enclosure measurement (AES paper ANSI S4-26-1984). **Data Conversion** All graphs were digitally generated using the APEX custom software system, designed to translate data derived from Audio Precision 'System One' test equipment into AutoCAD™. This program enables graphical information to be plotted to a high degree of accuracy.

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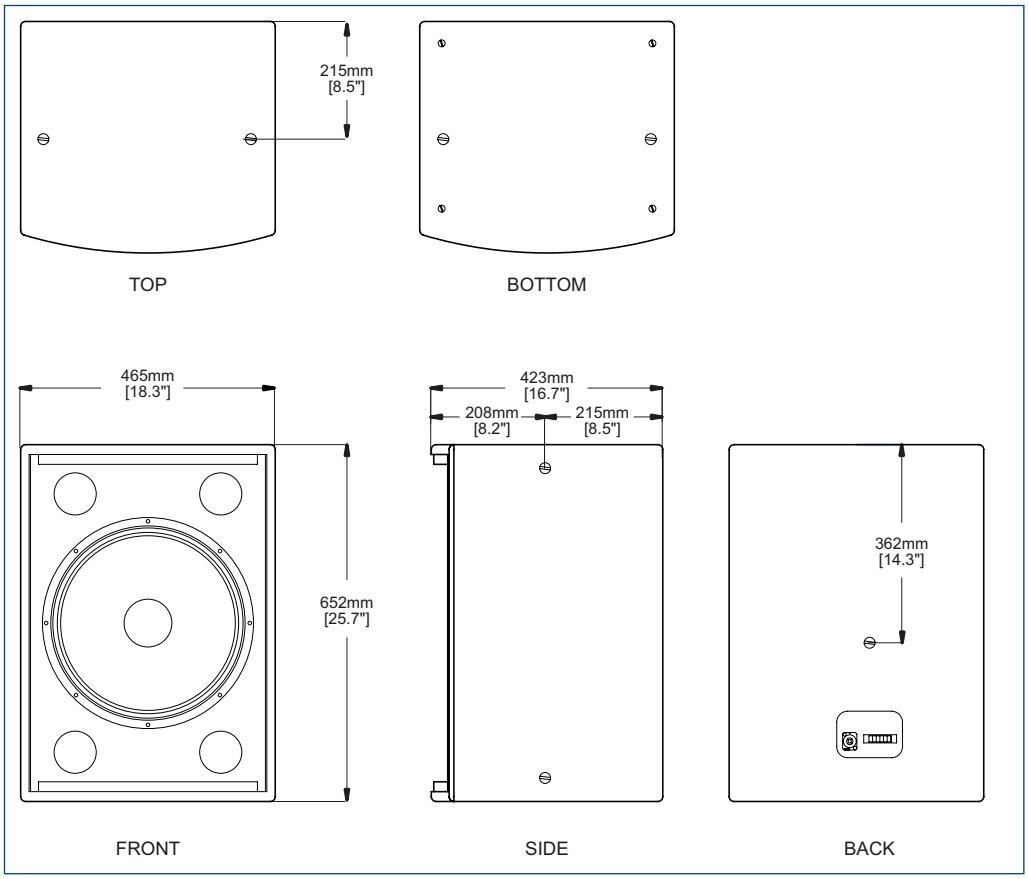
ARCHITECTURAL & ENGINEER'S SPECIFICATIONS

The speaker shall be of the low frequency type consisting of one 15" (381mm) low frequency driver. Performance specifications of a typical production unit shall meet or exceed the following: frequency response, measured with swept sine wave input, shall be flat within ±4dB from 43Hz - 150Hz. Nominal impedance shall be 8 ohms. Power handling shall be 300 watts r.m.s., 600 watts program. Sensitivity, measured with 1 watt input at 1 metre distance on axis, mean averaged over stated bandwidth, shall be 96dB. Maximum SPL (peak) measured with music program at stated amplifier input shall be 127dB. Dimensions: 652mmH x 465mmW x 423mmD (25.7"H x 18.3"W x 16.7"D). Weight: 25kg (55lbs). The loudspeaker system shall be the Turbosound TCS-115C. No other loudspeaker shall be acceptable unless submitted data from an independent test laboratory verify that the above combined performance / size specifications are equalled or exceeded.

DIMENSIONS



TURBOSOUND Ltd Star Road Partridge Green West Sussex RH13 8RY UK
tel: +44 (0) 1403 711447 fax: +44 (0) 1403 710155 • www.turbosound.com